09/997,169

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FILE 'HOME' ENTERED AT 08:39:37 ON 01 DEC 2003

=> file biosis medline caplus wpids uspatfull
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*** YOU HAVE NEW MAIL ***

=> s macer? (3a) whole tissue and nucleic acid and solid phase and buffer and protease and cationic surfactant
   3 FILES SEARCHED...
L1 1 MACER? (3A) WHOLE TISSUE AND NUCLEIC ACID AND SOLID PHASE AND BUFFER AND PROTEASE AND CATIONIC SURFACTANT

=> d l1 bib abs

L1 ANSWER 1 OF 1 USPATFULL on STN
AN 2002:314662 USPATFULL
TI Compositions, methods, and kits for isolating nucleic acids using surfactants and proteases
IN Greenfield, Lawrence, San Mateo, CA, UNITED STATES
Montesclaros, Luz, Pittsburg, CA, UNITED STATES
PI US 2002177139 A1 20021128
AI US 2001-997169 A1 20011128 (9)
RLI Continuation-in-part of Ser. No. US 2000-724613, filed on 28 Nov 2000, PENDING
DT Utility
FS APPLICATION
LREP Finnegan, Henderson, Farabow,, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315
CLMN Number of Claims: 64
ECL Exemplary Claim: 1
DRWN 32 Drawing Page(s)
LN.CNT 2457
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to compositions and methods for isolating nucleic acids from biological samples, including whole tissue. The invention also provides kits for isolating nucleic acids from biological samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s whole tissue and nucleic acid and solid phase and buffer and protease and cationic surfactant

09567863

3 FILES SEARCHED...
L2 4 WHOLE TISSUE AND NUCLEIC ACID AND SOLID PHASE AND BUFFER AND PROTEASE AND CATIONIC SURFACTANT

=> dup rem l2
PROCESSING COMPLETED FOR L2
L3 2 DUP REM L2 (2 DUPLICATES REMOVED)

=> s l3 not l1
L4 2 L3 NOT L1

=> d l4 bib abs 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:907069 CAPLUS
DN 138:1959
TI Compositions, methods, and kits for isolating nucleic acids using surfactants and proteases
IN Greenfield, Lawrence; Montesclaros, Luz
PA USA
SO U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 724,613.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002177139	A1	20021128	US 2001-997169	20011128
PRAI US 2000-724613	A2	20001128		

AB The invention relates to compns. and methods for isolating nucleic acids from biol. samples, including **whole tissue**. The invention also provides kits for isolating nucleic acids from biol. samples. A method for obtaining **nucleic acid** from a biol. sample and binding the **nucleic acid** to a **solid phase** comprises (a) contacting the biol. sample with a disrupting **buffer**, wherein the disrupting **buffer** comprises a **protease** and a **cationic surfactant** ; (b) substantially neutralizing the **cationic surfactant** ; and (c) binding the **nucleic acid** to a **solid phase**. Genomic DNA was isolated from several rat tissues and mouse tail using a digestion soln. contg. 1 mg of Proteinase K, 1 % DTAB, 100 mM Tris-HCl (pH 8.0), 20 .mu.M ATA, and 20 mM CaCl2 and incubating for 60 min at 65.degree.. Most of the tissues were effectively digested in less than one hour. Digestion of liver, brain and kidney were about 95 % complete after one hour. Following digestion, binding soln. contg. 5 M GuSCN, 50 mM MES (pH 6.0), 20 mM EDTA, and 6 % Tween 20 was then added to each sample and the samples were placed on GF/B filter membranes for washing and recovery of DNA.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2002:869079 CAPLUS
DN 137:365972
TI Isolation of nucleic acids from biological samples using surfactants and proteases
IN Greenfeld, I. Larry
PA PE Corporation, USA; Applera Corporation
SO PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	WO 2002090539	A2	20021114	WO 2001-US45071	20011128
	WO 2002090539	A3	20030807		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

	EP 1354036	A2	20031022	EP 2001-274041	20011128

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI	US 2000-724613	A	20001128
	WO 2001-US45071	W	20011128

AB The invention relates to compns. and methods for isolating nucleic acids from biol. samples, including **whole tissue**. The method comprises contacting the biol. sample with a disrupting **buffer** contg. proteases (e.g., Proteinase K) and a **cationic surfactant** (e.g., CTAB). The **cationic surfactant** is then neutralized either by its removal or by use of a second nonionic surfactants (e.g., Tween 20). Nucleic acids are then isolated by binding to a **solid phase**, such as glass fiber GF/B filters. The effects of cationic surfactants on activity of proteinase K, and the soly. of surfactants in different chaotropes is investigated to identify optimal cationic surfactants and salts. The invention also provides kits for isolating nucleic acids from biol. samples.

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